

*Presented to:*  
**APBI**



# ***AMRDEC Overview and Contracting Opportunities***



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**8 March 2016**

*Presented by:*

**Mr. James Lackey, SES**

**Director**

**U.S. Army Aviation and Missile Research,  
Development, and Engineering Center**

# Aviation and Missile Research, Development, and Engineering Center

## AVIATION DEVELOPMENT DIRECTORATE

- Aviation S&T supports both the current helicopter and future rotorcraft fleets in improving survivability, performance, and affordability
- Current efforts are focused on platforms, power, survivability, vehicle management, and operations support and sustainment
- Future efforts are focused on Future Vertical Lift (FVL)
- Joint Multi-Role (JMR) Technology Demonstrator (TD)
- Focus on Transition to PEO Aviation

## ENGINEERING DIRECTORATE

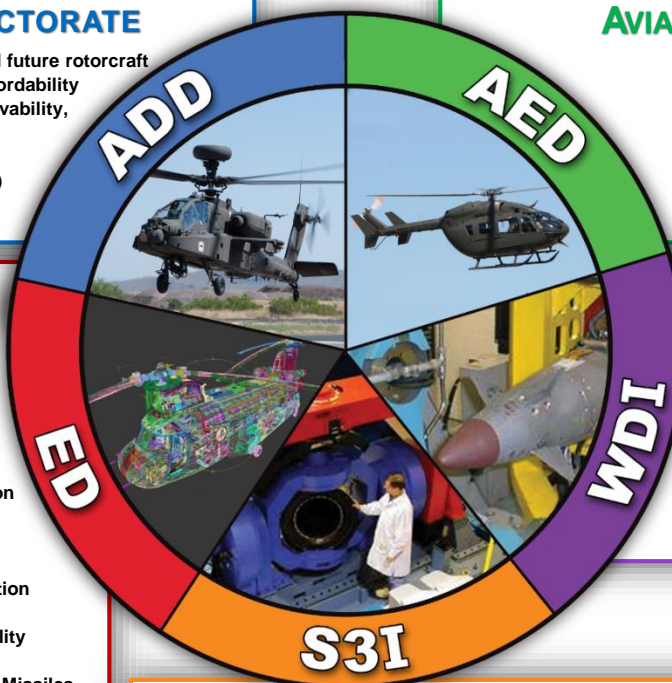
- Life Cycle Systems Engineering (LCCR)
- Independent Product / Process Assessment
- Rapid Prototype Engineering / Integration
- Materiel Release Review Board Vice-Chairman
- Standardization Executive for AMCOM and PEO Aviation
- AMCOM Industrial Base Advocate
- Team Redstone Industrial Base Enterprise Chairperson
- AMCOM Obsolescence Management Proponent
- AMCOM Product Assurance Advocate
- Senior Independent Review Teams
- Command Value Engineering / Life Cycle Cost Reduction (LCCR) Manager
- DoD Condition Based Maintenance (CBM) and Reliability Centered Based Maintenance WIPT Chair
- Stockpile Reliability Program (SRP) Manager for PEO Missiles and Space
- Army Representative for Development of New System Engineering (SE) Standard

## AVIATION ENGINEERING DIRECTORATE

- Delegated Airworthiness (AW) Authority
- Systems Engineering
- Aeromechanics
- Propulsion
- Structures and Materials
- Mission Equipment
- Maintenance/Sustainment Engineering
- Foreign Military AW Authority Recognitions

## WEAPONS DEVELOPMENT & INTEGRATION DIRECTORATE

- Life Cycle Management for DoD missile technology
- Conducts research, exploratory and advanced development, technology demonstration and provide engineering and scientific expertise in all aspects of weapon system design, development, improvement and integration for the Army
- Lead Army agent in the execution of the Missile Science and Technology Enterprise

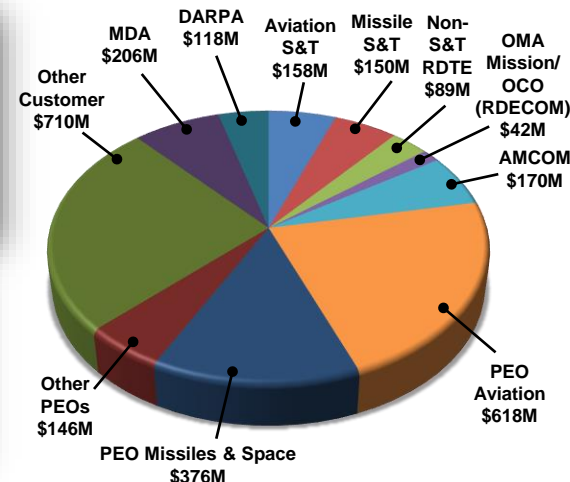


## SYSTEMS SIMULATION, SOFTWARE, & INTEGRATION DIRECTORATE

Provide Collaborative and Innovative Software Engineering, Modeling and Simulation, System Development, and Technical Systems Management Products and Solutions as well as Mission Enabling Center Support.

## Who We Support

FY15 (\$2,783M)



FY15 Strength = 9,176

Current S&E Personnel

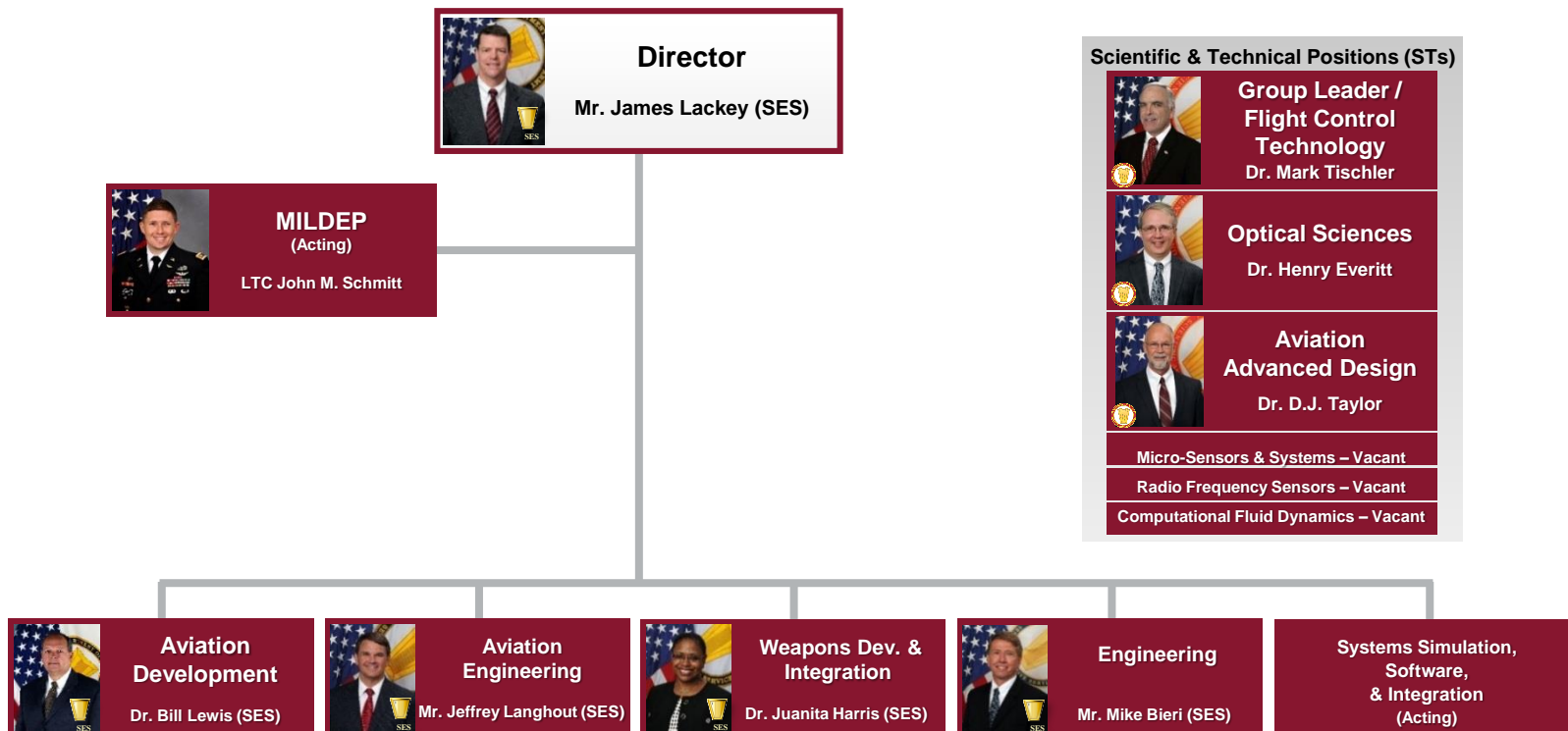
81.0% S&E	Civilian	3,040	PhD	6%
	Military	24	MS	44%
	Contractor	6,112	BS	100%

Average Age: 46.5 yrs

AS OF 6 OCT 2015

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# **Contracting Opportunities with AMRDEC**

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# AMRDEC Engineering Directorate (ED)



Description	POP	BAA/RFI/RFP Announcement	Est. \$
Prototype Integration Facility (PIF) Supplies and Services (PIF III)	7-10 yrs.	4 <sup>th</sup> Qtr FY16	\$2,450M



# AMRDEC Aviation Development Directorate (ADD)



Description	POP	BAA/RFI/RFP Announcement	Est. \$
Next Generation Rotorcraft TransMission	FY17 - FY21	Released 20 January	\$16M
Multifunctional Aircraft Technology for Survivability	FY16 - FY17	3 Dec 2016	\$2.6M
Alternate Concept Engine - Large	FY16 - FY21	Released 25 February	\$20M
Future Embedded Rotorcraft Sustainment Technologies (FERST)	FY18 - FY21	January 2017	\$18.5M (Government Funds - expect to be a Technology Investment Agreement)
Component Prognostics for Aviation Systems (CPAS)	FY18 - FY21	January 2017	\$16.4M (Government Funds - expect to be a Technology Investment Agreement)



# AMRDEC Aviation Development Directorate (ADD)



Description	POP	BAA/RFI/RFP Announcement	Est. \$
Ballistic Resistant Adaptive Seat System	FY16-FY17	TBD	\$3.4M
Adaptive Vertical Lift Engine Conceptual Design and Analysis Program	FY16-FY18	Released 18 February	\$1.3M
High-Strain Capable, High-Strength Composites (SIBR)	FY16 - FY17	TBD	\$1M
Aircraft and Aircrew Protection	FY16-FY20	March 2016	\$8.5M





# AMRDEC Weapons Development and Integration Directorate (WDI)



Description	POP	BAA/RFI/RFP Announcement	Est. \$
Long Range Fires (LFR) Science and Technology (S&T) Architecture Study	FY17-FY22, utilizing a basic 12mo. Effort and four 12mo option periods.	4 <sup>th</sup> Qtr FY16	Expected no more than 5 awards each not to exceed \$1M
Technologies for Army Long Range Tactical Missiles (BAA)	FY-17-FY22	4 <sup>th</sup> Qtr FY16	Multiple awards are possible not to exceed \$100M per award.





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# AMRDEC Systems, Simulation, Software, and Integration Directorate (S3I)



Description	POP	BAA/RFI/RFP Announcement	Est. \$
<b>Systems and Computer Resources Support (SCRS):</b> Three packages below will improve functional management of requirements.			
Virtual Systems (MAC)	5 yrs.	2017	\$425M
Battlefield Systems (MAC)	3 yrs.	2017	\$945M
Strategic Systems (MAC)	3 yrs.	2017	\$510M
<b>Battlefield Automated Systems Engineering Support (BASES)</b> (AMCOM Express)	5 yrs.	2016	\$450M
<b>Cyber-Systems and Software Security Engineering (S3E)</b> (AMCOM Express)	5 yrs.	2016	\$160M
<b>Lower Tier Program Office (LTPO IV&amp;V) (AMCOM Express)</b>	5 yrs.	2016	\$60M

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# AMRDEC Systems, Simulation, Software, and Integration Directorate (S3I)



Description	POP	BAA/RFI/RFP Announcement	Est. \$
<b>SED Programmatic Task</b> (AMCOM Express)	5 yrs.	2016	\$85M
<b>Unique Identification (UID) Marking</b> (AMCOM Express)	5 yrs.	2017	\$265M
<b>Unmanned Aviation Systems (UAS) General Engineering and Technical Services</b> (AMCOM Express)	5 yrs.	2017	\$200M

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# AMRDEC Aviation Engineering Directorate (AED)



Description	POP	BAA/RFI/RFP Announcement	Est. \$
Technical Support in Propulsion Project and Aircraft Systems	3 yrs.	2 <sup>nd</sup> Qtr 2016	\$29M
MED Airworthiness Depot Liaison Engineering and Technical Support (at CCAD)	3 yrs.	3 <sup>rd</sup> Qtr 2016	\$88M



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